

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/692,299  
Source: \_\_\_\_\_  
Date Processed by STIC: \_\_\_\_\_

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/692,299

DATE: 12/03/2004

TIME: 08:10:53

Input Set : N:\Crf3\RULE60\10692299.raw.txt

Output Set: N:\CRF4\12032004\J692299.raw

```

1 <110> APPLICANT: Ferrara, Napoleone
2   Watanabe, Colin
3   Wood, William I.
4 <120> TITLE OF INVENTION: EG-VEGF NUCLEIC ACIDS AND POLYPEPTIDES
5   AND METHODS OF USE
6 <130> FILE REFERENCE: GENENT.1516A
7 <140> CURRENT APPLICATION NUMBER: US/10/692,299
8 <141> CURRENT FILING DATE: 2003-10-22
9 <150> PRIOR APPLICATION NUMBER: US/09/886,242
10 <151> PRIOR FILING DATE: 2001-06-20
11 <150> PRIOR APPLICATION NUMBER: US 60/230,978
12 <151> PRIOR FILING DATE: 2000-09-07
13 <150> PRIOR APPLICATION NUMBER: US 60/213,637
14 <151> PRIOR FILING DATE: 2000-06-23
15 <150> PRIOR APPLICATION NUMBER: US 60/145,698
16 <151> PRIOR FILING DATE: 1999-07-26
17 <150> PRIOR APPLICATION NUMBER: US 60/096,146
18 <151> PRIOR FILING DATE: 1998-08-11
19 <150> PRIOR APPLICATION NUMBER: PCT/US00/32678
20 <151> PRIOR FILING DATE: 2000-12-01
21 <150> PRIOR APPLICATION NUMBER: PCT/US00/08439
22 <151> PRIOR FILING DATE: 2000-03-30
23 <150> PRIOR APPLICATION NUMBER: PCT/US00/04914
24 <151> PRIOR FILING DATE: 2000-02-24
25 <150> PRIOR APPLICATION NUMBER: PCT/US00/00219
26 <151> PRIOR FILING DATE: 2000-01-05
27 <150> PRIOR APPLICATION NUMBER: PCT/US99/12252
28 <151> PRIOR FILING DATE: 1999-06-02
29 <150> PRIOR APPLICATION NUMBER: US 09/709,238
30 <151> PRIOR FILING DATE: 2000-11-08
31 <150> PRIOR APPLICATION NUMBER: US 09/380,137
32 <151> PRIOR FILING DATE: 1999-08-25
33 <160> NUMBER OF SEQ ID NOS: 18
34 <170> SOFTWARE: FastSEQ for Windows Version 4.0
36 <210> SEQ ID NO: 1
37 <211> LENGTH: 1415
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo sapiens
40 <220> FEATURE:
41 <400> SEQUENCE: 1
42   tggcctcccc agcttgccag gcacaaggct gagcgggagg aagcgagagg catctaagca 60
43   ggcagtgttt tgccttcacc ccaagtgacc atgagagggtg ccacgcgagt ctcaatcatg 120
44   ctctctctag taactgtgtc tgactgtgct gtgatcacag gggcctgtga gcgggatgtc 180

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45      cagtgtgggg caggcacctg ctgtgccatc agcctgtggc ttcgaggggt gcggatgtgc 240
46      accccgctgg ggcgggaagg cgaggagtgc caccocggca gccacaaggt ccccttcttc 300
47      aggaaacgca agcaccacac ctgtccttgc ttgcccaccc tgctgtgctc cagggttccc 360
48      gacggcaggt accgctgctc catggacttg aagaacatca atttttaggc gcttgccctg 420
49      tctcaggata cccaccatcc ttttctgag cacagcctgg atttttatct ctgccatgaa 480
50      acccagctcc catgactctc ccagtcccta cactgactac cctgatctct cttgtctagt 540
51      acgcacatat gcacacaggg agacatacct cccatcatga catgggtccc aggtggcct 600
52      gaggatgtca cagcttgagg ctgtggtgtg aaagggtggc agcctgggtt tcttccctgc 660
53      tcaggctgcc agagaggtgg taaatggcag aaaggacatt ccccttcccc tccccagggt 720
54      acctgctctc tttcctgggc cctgcccctc tccccacatg tatccctcgg tctgaattag 780
55      acattcctgg gcacaggctc ttgggtgcat tgctcagagt cccagggtct ggcctgacct 840
56      tcaggccctt cactgtaggt ctgtgaggac caatttgtgg gtagttcatc ttcctcgtat 900
57      tggttaactc cttagtttca gaccacagac tcaagattgg ctcttcccag agggcagcag 960
58      acagtcaccc caaggcaggt gtagggagcc cagggaggcc aatcagcccc ctgaagactc 1020
59      tgggtcccagt cagcctgtgg cttgtggcct gtgacctgtg accttctgcc agaattgtca 1080
60      tgccctctgag gccccctctt accacacttt accagttaac cactgaagcc cccaattccc 1140
61      acagcttttc cattaaaatg caaatggtgg tggttcaatc taatctgata ttgacatatt 1200
62      agaaggcaat taggggtgtt ccttaaacia ctcttttcca aggatcagcc ctgagagcag 1260
63      gttggtgact ttgaggagg cagtcctctg tccagattgg ggtgggagca agggacaggg 1320
64      agcagggcag gggctgaaag gggcactgat tcagaccagg gaggcaacta cacaccaaca 1380
65      tgctggcttt agaataaaag caccaactga aaaaa 1415
67 <210> SEQ ID NO: 2
68 <211> LENGTH: 105
69 <212> TYPE: PRT
70 <213> ORGANISM: Homo sapiens
71 <220> FEATURE:
72 <400> SEQUENCE: 2
73      Met Arg Gly Ala Thr Arg Val Ser Ile Met Leu Leu Leu Val Thr Val
74      1 5 10 15
75      Ser Asp Cys Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Val Gln Cys
76      20 25 30
77      Gly Ala Gly Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg
78      35 40 45
79      Met Cys Thr Pro Leu Gly Arg Glu Gly Glu Cys His Pro Gly Ser
80      50 55 60
81      His Lys Val Pro Phe Phe Arg Lys Arg Lys His His Thr Cys Pro Cys
82      65 70 75 80
83      Leu Pro Asn Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys
84      85 90 95
85      Ser Met Asp Leu Lys Asn Ile Asn Phe
86      100 105
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 374
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapiens
92 <220> FEATURE:
93 <221> NAME/KEY: unsure
94 <222> LOCATION: (0)...(0)
95 <223> OTHER INFORMATION: n = A, T, C or G

```

## RAW SEQUENCE LISTING

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Input Set : N:\Crif3\RULE60\10692299.raw.txt

Output Set: N:\CRF4\12032004\J692299.raw

```

96 <400> SEQUENCE: 3
W--> 97   tggctcccca gcttgccagg cacaaggctg agctggagga agcgagangc atctaagcag 60
98   gcagtgtttt gccttcaccc caagtgacca tgagaggtgc cacgcgagtc tcaatcatgc 120
99   tcctcctagt aactgtgtct gactgtgctg tgatcacagg ggctgtgag cgggatgtcc 180
100  agtgtggggc aggcacctgc tgtgccatca gcctgtggct tcgagggctg cggatgtgca 240
101  ccccgctggg gcggaaggc gaggagtgcc acccggcag ccacaaggtc cccttcttca 300
102  ggaaacgcaa gcaccacacc tgtcttggtg cccaacctgc tgtgctccag ttccggacgg 360
103  cagtacgctg ctca                                     374
105 <210> SEQ ID NO: 4
106 <211> LENGTH: 100
107 <212> TYPE: PRT
108 <213> ORGANISM: Homo sapiens
109 <400> SEQUENCE: 4
110  Met Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Leu Pro Arg Ala
111      1             5             10             15
112  Gly Asp Ala Ala Val Ile Thr Gly Ala Cys Asp Lys Asp Ser Gln Cys
113      20             25             30
114  Gly Gly Gly Met Cys Cys Ala Val Ser Ile Trp Val Lys Ser Ile Arg
115      35             40             45
116  Ile Cys Thr Pro Met Gly Lys Leu Gly Asp Ser Cys His Pro Leu Thr
117      50             55             60
118  Arg Lys Val Pro Phe Phe Gly Arg Arg Met His His Thr Cys Pro Cys
119      65             70             75             80
120  Leu Pro Gly Leu Ala Cys Leu Arg Thr Ser Phe Asn Arg Phe Ile Cys
121      85             90             95
122  Leu Ala Gln Lys
123      100
125 <210> SEQ ID NO: 5
126 <211> LENGTH: 79
127 <212> TYPE: PRT
128 <213> ORGANISM: Snake
129 <400> SEQUENCE: 5
130  Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Leu Gln Cys Gly Lys Gly
131      1             5             10             15
132  Thr Cys Cys Ala Val Ser Leu Trp Ile Lys Ser Val Arg Val Cys Thr
133      20             25             30
134  Pro Val Gly Thr Ser Gly Glu Asp Cys His Pro Ala Ser His Lys Ile
135      35             40             45
136  Pro Phe Ser Gly Gln Arg Met His His Thr Cys Pro Cys Ala Pro Asn
137      50             55             60
138  Leu Ala Cys Val Gly Thr Pro Lys Lys Phe Lys Cys Leu Ser Lys
139      65             70             75
141 <210> SEQ ID NO: 6
142 <211> LENGTH: 83
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
145 <400> SEQUENCE: 6
146  Cys Asp Asn Gln Arg Asp Cys Gln Pro Gly Leu Cys Cys Ala Phe Gln
147      1             5             10             15

```

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TIME: 08:10:53

Input Set : N:\Crf3\RULE60\10692299.raw.txt

Output Set: N:\CRF4\12032004\J692299.raw

```

148      Arg Gly Leu Leu Phe Pro Val Cys Thr Pro Leu Pro Val Glu Gly Glu
149              20                      25                      30
150      Leu Cys His Asp Pro Ala Ser Arg Leu Leu Asp Leu Ile Thr Trp Glu
151              35                      40                      45
152      Leu Glu Pro Asp Gly Ala Leu Asp Arg Cys Pro Cys Ala Ser Gly Leu
153              50                      55                      60
154      Leu Cys Gln Pro His Ser His Ser Leu Val Tyr Val Cys Lys Pro Thr
155              65                      70                      75                      80
156      Phe Val Gly
158 <210> SEQ ID NO: 7
159 <211> LENGTH: 79
160 <212> TYPE: PRT
161 <213> ORGANISM: Xenopus
162 <400> SEQUENCE: 7
163      Cys Leu Arg Ser Thr Asp Cys Ala Pro Gly Leu Cys Cys Ala Arg His
164              1                      5                      10                      15
165      Phe Trp Ser Lys Ile Cys Lys Pro Val Leu Asp Glu Gly Gln Val Cys
166              20                      25                      30
167      Thr Lys His Arg Arg Lys Gly Ser His Gly Leu Glu Ile Phe Gln Arg
168              35                      40                      45
169      Cys His Cys Gly Ala Gly Leu Ser Cys Arg Leu Gln Lys Gly Glu Phe
170              50                      55                      60
171      Thr Thr Val Pro Lys Thr Ser Arg Leu His Thr Cys Gln Arg His
172              65                      70                      75
174 <210> SEQ ID NO: 8
175 <211> LENGTH: 79
176 <212> TYPE: PRT
177 <213> ORGANISM: Porcine
178 <400> SEQUENCE: 8
179      Cys Leu Asn Ser Ala Gln Cys Lys Ser Asn Cys Cys Gln His Asp Thr
180              1                      5                      10                      15
181      Ile Leu Ser Leu Ser Arg Cys Ala Leu Lys Ala Arg Glu Asn Ser Glu
182              20                      25                      30
183      Cys Ser Ala Phe Thr Leu Tyr Gly Val Tyr Tyr Lys Cys Pro Cys Glu
184              35                      40                      45
185      Arg Gly Leu Thr Cys Glu Gly Asp Lys Ser Leu Val Gly Ser Ile Thr
186              50                      55                      60
187      Asn Thr Asn Phe Gly Ile Cys His Asp Val Gly Arg Ser Ser Asp
188              65                      70                      75
190 <210> SEQ ID NO: 9
191 <211> LENGTH: 17
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
196 <400> SEQUENCE: 9
197      ccggcagcca caaggtc
199 <210> SEQ ID NO: 10
200 <211> LENGTH: 18

```

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## RAW SEQUENCE LISTING

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TIME: 08:10:53

Input Set : N:\Crf3\RULE60\10692299.raw.txt

Output Set: N:\CRF4\12032004\J692299.raw

```

201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
205 <400> SEQUENCE: 10
206     tgggcaagca aggacagg
208 <210> SEQ ID NO: 11
209 <211> LENGTH: 26
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
214 <400> SEQUENCE: 11
215     ccttcttcag gaaacgcaag caccac
217 <210> SEQ ID NO: 12
218 <211> LENGTH: 19
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
223 <400> SEQUENCE: 12
224     aatgacgagg gcctggagt
226 <210> SEQ ID NO: 13
227 <211> LENGTH: 21
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
232 <400> SEQUENCE: 13
233     ttgatccgca taatctgcat g
235 <210> SEQ ID NO: 14
236 <211> LENGTH: 26
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
241 <400> SEQUENCE: 14
242     tgtgcccact gaggagtcca acatca
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 35
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
250 <400> SEQUENCE: 15
251     aggccctacg tgcggcctca cacagcctgt tctga
253 <210> SEQ ID NO: 16
254 <211> LENGTH: 35
255 <212> TYPE: DNA

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/692,299

DATE: 12/03/2004  
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Input Set : N:\Crf3\RULE60\10692299.raw.txt  
Output Set: N:\CRF4\12032004\J692299.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 48

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/692,299

DATE: 12/03/2004

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Input Set : N:\Crf3\RULE60\10692299.raw.txt

Output Set: N:\CRF4\12032004\J692299.raw

L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0